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Safety Precautions

WARNING: DANGEROUS VOLTAGE INSIDE

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

- The POWER button does not completely shut off the mains power from the unit, but switches operating current on or off only.
- The rating plate is on the rear of the unit.

WARNING
Any unauthorized changes or modifications to this equipment void the user's authority to operate it.

G-CODE® S-VHS 525/625

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Introduction

Congratulations on purchasing your new VCR.

You can't wait to get it working, but before you do, spare a few moments to read this brief introduction to the world of video recording. It may repay you handsomely in terms of improved results, and avoiding of costly mistakes.

Positioning

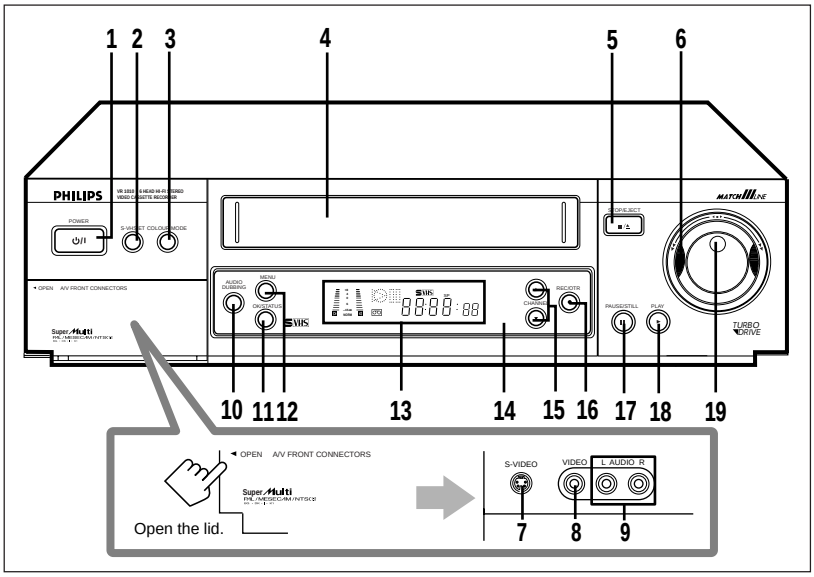
Do not place the VCR directly on top of, or underneath, your TV set. Ensure that there is at least 20 cm between the VCR and the TV set, and that air can circulate freely through the ventilation openings of the VCR.

IMPORTANT
Audio-Visual material may consist of copyrighted works which must not be recorded without the authority of the owner of the copyright.
Please refer to relevant laws in your country.

G-CODE is a registered trademark of Gemstar Development Corporation. The G-CODE system is manufactured under license from Gemstar Development Corporation.

DESCRIPTION OF CONTROLS

Front Panel



1 POWER button
- Turns the VCR on or off.
- Sets the VCR for an unattended recording (timer recording) after timer settings are completed. (✍P.25, P.26)

2 S-VHS ET button
Selects S-VHS ET recording mode when pressed. The lamp (the button itself) will lit. (✍P.19)

3 COLOUR MODE button
Selects the colour mode both for playback and recording. (✍P.12)

4 Cassette compartment
Where a video cassette is inserted.

5 STOP/EJECT ■ / ⏏ button
Stops the tape when the tape is running. (✍P.13)
Press again to eject the cassette when the tape is not running. (✍P.18)

6 Shuttle ring
- Rewinds or fast forwards the tape when the tape is not running. (✍P.20)
- Starts reverse or forward rapid visual search during playback or still picture mode. (✍P. 13, P.20)
- Changes the setting of a menu item by turning to the right, or returns to a previous menu by turning to the left when using the menus.

7 S-VIDEO input jack
For connecting to the S-Video output jack on another VCR or a camcorder. (✍P.27)

8 VIDEO input jack
For connecting to the video output jack on another VCR or a camcorder. (✍P.27)

9 AUDIO input jacks
For connecting to the audio output jacks on another VCR or a camcorder. (✍P.27)

10 AUDIO DUBBING button
Replaces the normal audio sound of a previously recorded tape with a new soundtrack, using an audio component. (✍P.28)

11 OK/STATUS button
- Goes to the next item on the VCR menu. (✍P.10)
- Displays the time counter, present time, channel number, and remaining tape length. (✍P.21)

12 MENU button
Displays the menu.
Press again to exit from the menu operations. (✍P.10)

13 Display window
See page 6.

14 IR (infrared) remote sensor
Receives the signal from the (IR) remote control.

15 CHANNEL ▼ /▲ buttons
- Changes the channels on the VCR. Release at a desired channel.
- Moves the cursor up and down when using the menus. (✍P.10)
- Adjusts the tracking during playback, still picture and slow motion picture. (✍P.20)

16 REC (record)/OTR ● button
- Starts recording when pressed once. (✍P.13)
- Starts a recording for 30 minutes to 6 hours long when pressed more than once. The shut-off time increases in 30-minute intervals. (✍P.21)

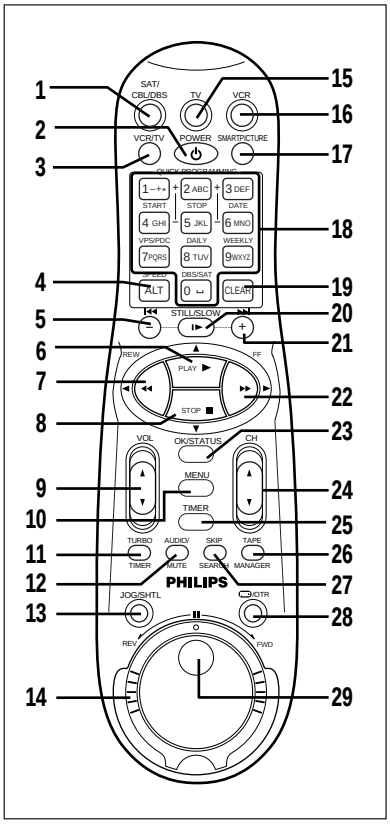
17 PAUSE/STILL ❚❚ button
- Stops the tape during recording (pause) or playback (still picture). (✍P.13,P.20)
  Press again to resume normal recording.
  Press PLAY ► to resume normal playback.
- Activates slow motion picture when pressed for more than 2 seconds during playback. (✍P.20)

18 PLAY ► button
Starts normal playback. (✍P.13)

19 Jog dial
Advances or reverses the picture frame by frame in the still picture mode. (✍P.20)

DESCRIPTION OF CONTROLS (CONTINUED)

Remote Control



Using this remote control to operate TV

You can use this remote control to operate your TV.
To operate TV, see page 29.

1 SAT/CBL/DBS button

Does not function for this model.

2 POWER button

Before using this button, press VCR or TV to select your target component.

- After pressing VCR:
  - Turns the VCR on or off.
  - Sets the VCR for an unattended recording (timer recording) after timer settings are completed. (☞P.24)
- After pressing TV, turns the TV on or off.

3 VCR/TV button

- After pressing TV, selects TV mode or Auxiliary mode at TV.

4 ALT/SPEED button

- SPEED:
  After pressing VCR, selects the tape speed for recording (SP, LP or SLP). During playback, the tape speed is automatically selected (SP, LP or SLP). (☞P.13, P.25)
- ALT:
  ONLY FOR SOME PHILIPS TV's:
  After pressing TV, press this button to go back to the previously selected channel on TV.

5 STILL/SLOW – / |◄◄ button

- During a slow motion picture, adjusts the playback speed in the reverse direction. (☞P.19)
  Press PLAY ► to resume normal playback.
- Locates an index marked at the beginning of every recording. (☞P.19)

6 PLAY ► / ▲ button

Before using this button, press VCR or TV to select your target component.

- After pressing VCR:
  - Starts normal playback. (☞P.13)
  - Moves up the cursor when using the menus. (☞P.10)
- ONLY FOR SOME PHILIPS TVs:
  After pressing TV, operates the TV's menus.

7 ◄◄ (Rewind) / ◄ button

Before using this button, press VCR or TV to select your target component.

- After pressing VCR:
  - Rewinds the tape. Also, during playback, starts rapid reverse visual search. (☞P.13)
  - Goes back to the previous menu screen when using the menus. (☞P.10)
- ONLY FOR SOME PHILIPS TVs:
  After pressing TV, operates the TV's menus.

8 STOP ■ / ▼ button

- After pressing VCR:
  - Stops the tape. (☞P.13)
  - Moves down the cursor when using the menus. (☞P.10)
- ONLY FOR SOME PHILIPS TVs:
  After pressing TV, operates the TV's menus.

9 VOL (volume) ▲ / ▼ buttons

Changes the TV volume.
Release at desired volume.

10 MENU button

Before using this button, press VCR or TV to select your target component.

- After pressing VCR, calls up the main menu. (☞P.10)
- Exits the menu screen when using the menus.
- ONLY FOR SOME PHILIPS TVs:
  After pressing TV, calls up the TV's main menu.

11 TURBO TIMER button

Press to engage the Turbo Timer mode. (☞P.25)

12 AUDIO/MUTE button

Before using this button, press VCR or TV.

- After pressing VCR, selects sound output mode. (☞P.22)
- After pressing TV, turns off the TV sound.

13 JOG/SHTL (shuttle) button and lamp

Activates the jog dial and shuttle ring on the remote control when the lamp (the button itself) is lit. (☞P.19)

14 Shuttle ring

Starts reverse or forward rapid visual search during playback or still picture mode. (☞P.13, P.19)

15 TV button

Makes the remote control ready for operating the TV.

16 VCR button

Makes the remote control ready for operating the VCR.

17 SMARTPICTURE button
Selects the SmartPicture mode. (☞P.21)

18 Number buttons (0, 1, 2, 3, 4, 5, 6, 7, 8 and 9)
Before using these buttons, press VCR or TV to select your target component.
- Press to select a channel on the VCR or TV.
  To select channels 1 to 9, press 0 then the channel you want. For example, for channel 4, press 0 then 4.
- Press to enter characters in the "EDIT TITLE" screen. (☞P.15)
- Also used to programme the Timer Recordings. (☞P.25)

19 CLEAR button
- Erases unwanted timer programmes. (☞P.25)
- Resets counter to 0:00:00.

20 STILL/SLOW ❙► button
- Stops the tape during recording (pause) or playback (still picture). (☞P.13, P.19)
  Press again to resume normal recording.
  Press PLAY ► to resume normal playback.
- Activates slow motion picture when pressed for more than 2 seconds during playback. (☞P.19)

21 STILL/SLOW + / ►►❙ button
- During a slow motion picture, adjusts the playback speed in the forward direction. (☞P.19)
  Press PLAY ► to resume normal playback.
- Locates an index marked at the beginning of every recording. (☞P.19)

22 ►► (Fast Forward) / ► button
Before using this button, press VCR or TV to select your target component.
- After pressing VCR:
  – Fast forwards the tape. Also during playback, starts rapid forward visual search. (☞P.13)
  – Changes the setting of a menu item when using the menus. (☞P.10)
- ONLY FOR SOME PHILIPS TVs: After pressing TV, operates the TV's menus.

23 OK/STATUS button
Before using this button, press VCR or TV to select your target component.
- After pressing VCR:
  – Goes to the next item on the VCR menu. (☞P.10)
  – Displays the time counter, present time, channel number, and remaining tape length. (☞P.20)
- After pressing TV:
  For some PHILIPS TVs:
  – Displays the TV's on-screen information.
  For other manufacturers' TVs:
  Functions as the ENTER button if your TV requires pressing ENTER after selecting a channel number.

24 CH (channel) ▲ / ▼ button
Before using this button, press VCR or TV.
- After pressing VCR, changes the channels on the VCR. Release at a desired channel.
- After pressing TV, changes the channels on the TV. Release at a desired channel.

25 TIMER button
Displays the Timer Recording menu. (☞P.24)

26 TAPE MANAGER
Press to access the Tape Manager directory screen. (☞P.14)

27 SKIP SEARCH button
Press during tape playback to fast forward 30 seconds of a tape. (☞P.19)

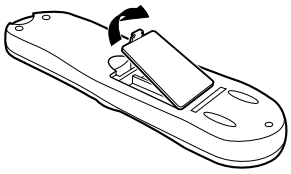
28 REC (record)/OTR button
- Start recording when pressed once. (☞P.13)
- Starts a recording for 30 minutes to 6 hours long. When pressed more than once, the shut-off time increases in 30-minute intervals. (☞P.20)

29 Jog Dial
Advances or reverses the picture frame by frame in the still picture mode. (☞P.19)

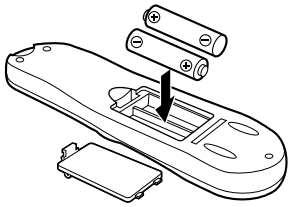
Note:
The following buttons will glow when you use or place the remote control in the dark area.
- *PLAY ►*
- *STOP ■*
- *►► (Fast forward)*
- *◄◄ (Rewind)*
- *VOL (ume) ▲/▼*
- *CH (annel) ▲/▼*

To insert the batteries:

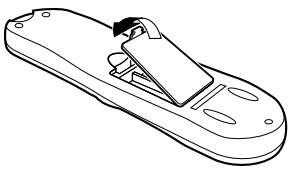
1 Remove the battery compartment lid from the bottom of the remote control.



2 Install two AA batteries — R6(SUM-3)/AA — matching polarity indicated inside the battery compartment.



3 Replace the lid.



Note:
This remote control and batteries are supplied accessories.
Check to make sure they are included.
Also, check "Specifications" to see what other accessories are included.

CAUTION
On Battery Replacement
Do not mix old and new batteries. (Also never mix alkaline batteries with manganese batteries.)

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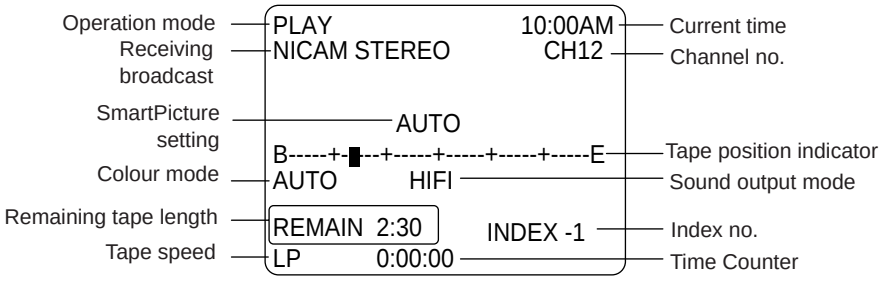
DESCRIPTION OF CONTROLS (CONTINUED)

On-Screen Display

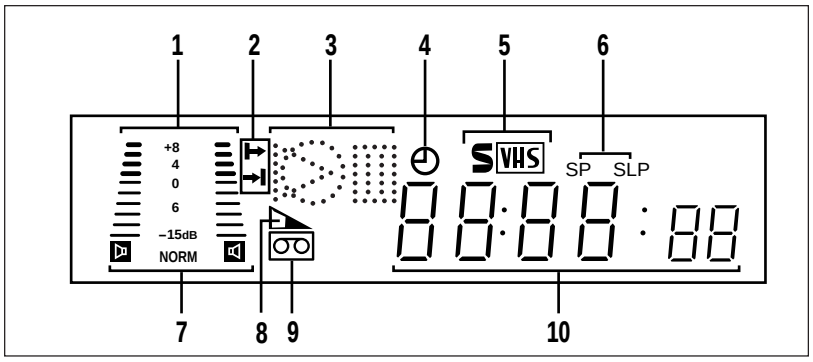
The following information (VCR operating status) appears on the TV screen. (☞P.14)



Note on the displayed information

- *The time counter and remaining tape length will not be correct when playing back an NTSC tape.*
- *When you playback a thin tape like an E-240 cassette tape or compact video cassette tape (VHS-C), the remaining tape length will flash.*

Display Window



1 Sound level indicator

Indicates the audio signal level.

2 Programme Time Indicators

Show the programme start time (▮►) and the programme stop time (►▮) for Turbo Timer. (☞P.23)

3 Operation mode indicators

○ : Lights up during recording.
▷ : Lights up during playback.
▯▯ : Lights up during a pause.
☼ : "▷" lights up and "○" blinks during audio dubbing.

4 ◴ (Timer) indicator

Lights up when the VCR is set for an unattended recording (timer recording). (☞P.25)

5 S-VHS indicator

Lights up while playing back a tape recorded in S-VHS format or with S-VHS ET function, while recording on an S-VHS tape using S-VHS format or while recording with S-VHS ET function.

6 Speed indicator

Indicates the tape speed.
SP – Standard Play
LP – Long Play
SLP – Super Long Play
(For NTSC signal only)

7 Sound output mode indicator

Indicates audio output mode currently selected. (☞P.19)

8 Tape Remaining Time indicator

Displays the time remaining on tape after pressing OK/STATUS.

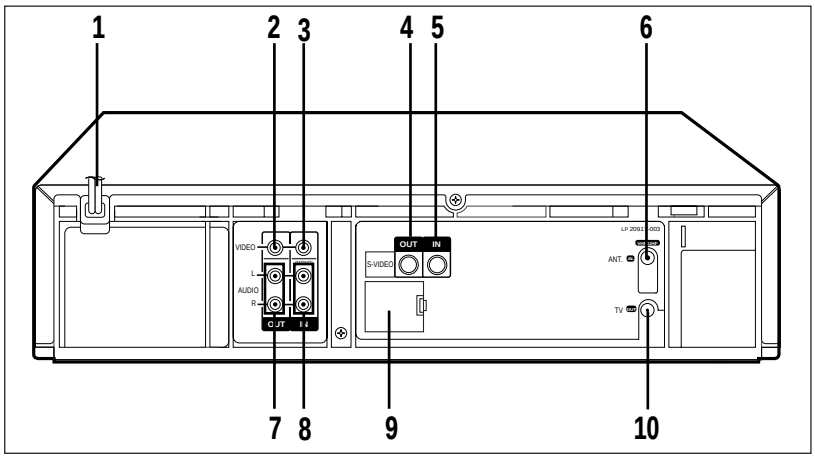
9 (Cassette-in) indicator

Lights up when there is a cassette in the VCR.

10 Digital clock/counter/ Channel indicator

- Normally the present time appears.
- When a tape is inserted, the time counter appears (and is reset to 00:00:00).
  If you always rewind your tapes completely, you can use this counter reading as an index to find where a programme starts.
- A channel position number selected with the TV tuner built in the VCR appears.
  When the external line input is selected, the following display appears:
  - "F-1" for the front panel Audio/ Video jacks.
  - "F-S" for the front panel Audio/ S-Video jacks.
  - "L-1" for the rear panel Audio/ Video jacks.
  - "L-S" for the rear panel Audio/ S-Video jacks.
  - "CL" appears blinking when child lock mode is engaged.(☞P.20)
  - Indicates START time, STOP time and channel number during Turbo Timer mode. (☞P.23)
- "U:01" appears when the video heads are dirty. (☞P.30)

Rear Panel



1 AC (alternating current) power cord
Connect the AC power cord to an AC outlet.

2 VIDEO OUT (output) jack
For connecting to the video input jack on a TV or another VCR. (☞P.8)

3 VIDEO IN (input) jack
For connecting to the video output jack on another VCR or a camcorder. (☞P.23)

4 S-VIDEO OUT (output) jack
For connecting to the S-Video input jack on a TV or another VCR. (☞P.9, P.23)

5 S-VIDEO IN (input) jack
For connecting to the S-Video output jack on a TV or another VCR. (☞P.9, P.23)

6 ANT. IN (input) terminal (from Antenna)
Connect your antenna or Cable to this terminal. (☞P.8)

7 AUDIO OUT (output) jacks
For connecting to the audio input jacks on a TV or another VCR. (☞P.8)

8 AUDIO IN (input) jacks
For connecting to the audio output jacks on another VCR or a camcorder. (☞P.23)

9 Lithium battery compartment
Place the lithium battery. (see below)

10 TV OUT (output) terminal (to TV)
Use the supplied RF coaxial cable to connect this terminal to the UHF/VHF input terminal on the TV. (☞P.8)

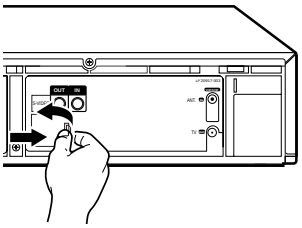
Installing/Removing the Lithium Battery

IMPORTANT

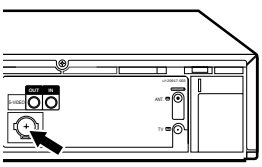
Before inserting the lithium battery, plug the AC power cord into an AC outlet (☞P.8). Without connecting the AC power cord, the lithium battery will be used up immediately.

Note:
Without this lithium battery, this VCR can keep the memorized timer recording contents and clock time only for a few minutes if a power interruption occurs.

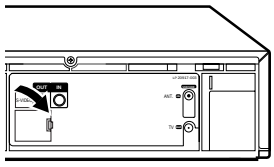
1 Open the battery compartment lid for the lithium battery.



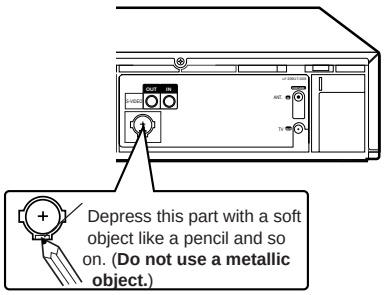
2 Install the battery —CR2025— matching polarity indicated inside the battery compartment.



3 Replace the lid.



To remove the battery:



CAUTION

On Replacable Lithium Battery

The lithium battery used in this device may present a fire or chemical burn hazard if mis-treated. Do not recharge, disas-semble, heat above 100˚C or incinerate.

Replace battery with Panasonic (Matsushita Electric), Sanyo, Sony or Maxell CR2025.

Danger of explosion or risk of fire if the battery is incorrectly replaced.

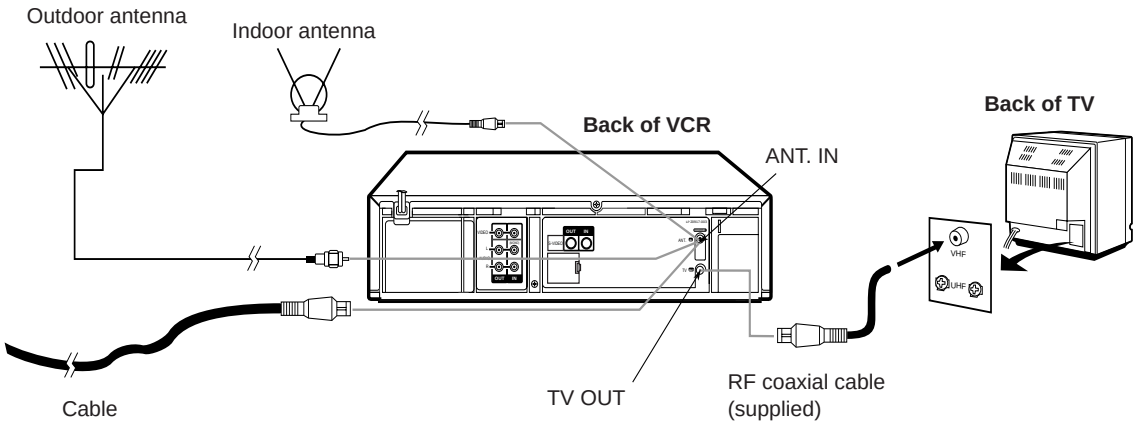
- Dispose of used battery promptly.
- Keep away from children.
- Do not disassemble and do not dispose of in fire.

GETTING CONNECTED UP

VCR to TV Connection

Connection Diagram

1 **Disconnect the antenna or Cable from the TV and the AC power cord of the TV from the AC outlet.**
2 **Connect the antenna or Cable to the VCR.**
3 **Connect the VCR to the TV using the RF coaxial cable.**
4 **Plug the AC power cords of the VCR and TV into the AC outlets.**



CAUTION
Do not plug the AC power cords until all connections are completed.

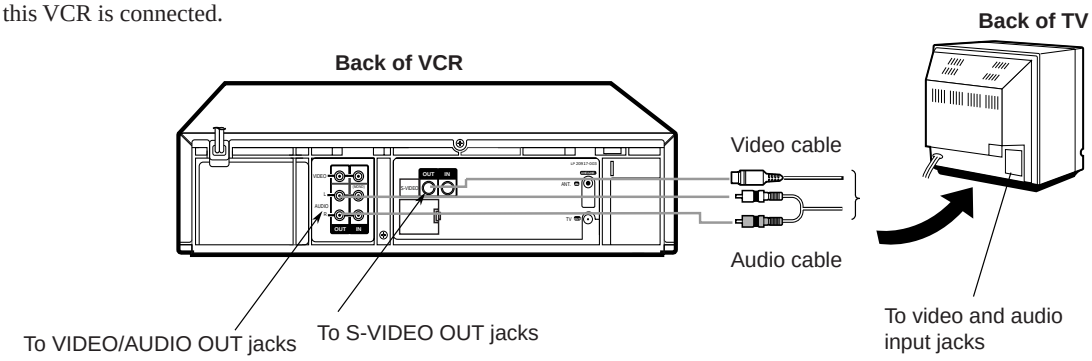
NOTES:
For customers in Australia;
This VCR is factory pretuned to capital city stations 2, 7, 9, 10 & 28.

To watch a picture from this VCR on the TV:
For customers in Australia;
– select UHF 38 channel (597.25 MHz) (video channel of this VCR when shipped from the factory). If you want to change video channel, see "Setting the Video Channel" (☞P.8).
For customers in New Zealand;
– be sure to set video channel (☞P.8)

VCR to AV TV Connection Using AUDIO/VIDEO Cable

With this connection, you can get better pictures and HiFi sounds when playing back a tape.

To watch a picture from this VCR on the TV, select the video input on the TV, to which this VCR is connected.



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SETTING UP

Setting the Video Channel

This VCR is designed to send picture and sound signal on UHF channel 38 (597.25 MHz) to the TV, through the RF coaxial cable.
For customers in Australia;
If you want to change this video channel (38) to another channel (between 28 to 60), follow the procedure below before turning on the VCR for the first time.
For customers in New Zealand;
Be sure to set video channel (between 28 to 60) by following the procedure below before turning on the VCR for the first time.

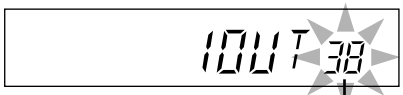
1 Make sure the VCR is turned off and no cassette inserted.

2 Turn on the TV, and tune it to any channel (UHF 28 to 60) you want to use as the video channel on the TV.
- Select a channel not used in your area.

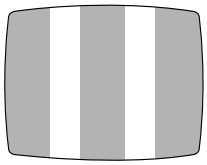
3 Press STOP/EJECT ■ /⏏ on the front panel for more than 5 seconds.
The following indication appears on the display.

4 Press CH ▲ / ▼ on the front panel to select an appropriate TV system number for your area.
1. For B/G. (For West Europe, ASEAN countries, New Zealand)
2. For D/K. (For China, Russia, East Europe)
3. For I. (For Hong Kong, South Africa, United Kingdom)
4. For H. (For Australia)
5. For M. (For USA, Canada, Mexico, Japan, Latin America Countries, Korea, Taiwan, Philippines)

5 Press OK/STATUS.
The channel number starts flashing on the display.



6 Press CH ▲ / ▼ on the VCR to select the channel you have tuned on the TV as the video channel in step 2.
A test signal (two vertical white bars) appears on the TV.



Test signal (two vertical white bars)

***If you use only external video input (AV) mode to watch the picture from this VCR**, you can turn off the video channel output. To turn off the video output channel, press CH ▼ until "– –" appears on the channel number position.*

7 Press OK/STATUS to finish the video channel setting.
Now you will enter the Initial Setup mode explained on page 9.

To watch a picture from this VCR on the TV, select the same channel you have selected as the video channel (in step 2 above) on the TV.

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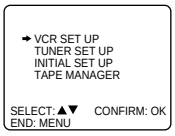
Operations hereafter are described using the buttons on the remote control unless mentioned otherwise. The buttons on the front panel having the same (or nearly same) name or same (or nearly same) mark function exactly the same as those on the remote control.

Menu Operations

Before operating the VCR, be familiar with the menu operations first because most of the features built into the VCR can be available only on the menus.

1 Press VCR on the remote control.
- *When using the buttons on front panel, skip this step.*

2 Press MENU to display the main menu screen.



3 Press PLAY ▲ or STOP ▼ (or CH ▲/▼ on the front panel) to select a desired feature on the menu, then press OK/STATUS.

4 When you select a feature, go to the section in this manual and follow the instructions described there.

To go back to the previous menu screen, press REW ◄ (or turn the shuttle ring on the front panel to the left).

To exit from the menu operations, press MENU.

Note:
Menu operating buttons function only when a menu is on the TV screen. When no menus is on the TV screen, they function differently.

IMPORTANT

The setup and adjustment procedures explained hereafter are written under the following conditions:
- You have turned on the TV and selected the video channel (or external video input).
- You have turned on the VCR.

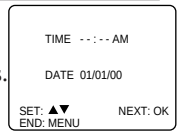
Initial Setup

For the first time you turn on the VCR or finish video channel setting, the VCR automatically enters the Clock Setting mode unless you have set it.

Make sure....
- Your VCR, TV and antenna are connected correctly.
- The remote control operation mode is set correctly for operating your target component.
  – Press VCR to operate the VCR.
  – Press TV to operate the TV.

1 Set Clock

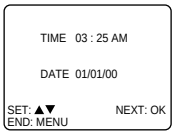
1 Press POWER, if necessary.The clock setting menu appears.



2 Press PLAY ▲ or STOP ▼ to set the time, then press OK/STATUS.
- Each time you press PLAY ▲ or STOP ▼, the set time changes by 1-minute intervals. If you press and hold the button, the set time changes by 30-minute intervals.

3 Press PLAY ▲ or STOP ▼ to set the day and month, then press OK/STATUS.
- Each time you press PLAY ▲ or STOP ▼, the set date changes by 1-day intervals. If you press and hold the button, the set date changes by 15-day intervals.

4 Press PLAY ▲ or STOP ▼ to set the year, then press OK/STATUS.



- Each time you press PLAY ▲ or STOP ▼, the set year changes by 1-year intervals. If you press and hold the button, the set year changes rapidly.

5 Press MENU to exit from the menu operations..

To reset the clock manually

You can also reset or correct the clock manually.

1 Press VCR.
2 Press MENU.
3 Press PLAY ▲ or STOP ▼ to select "INITIAL SET UP" then press OK/STATUS.
The Initial Set Up menu appears.
4 Press PLAY ▲ or STOP ▼ to select "SET CLOCK" then press OK/STATUS.
5 Press PLAY ▲ or STOP ▼ to set the time, then press OK/STATUS.
- Each time you press PLAY ▲ or STOP ▼, the set time changes by 1-minute intervals. If you press and hold the button, the set time changes by 30-minute intervals.

6 Press PLAY ▲ or STOP ▼ to set the day and month, then press OK/STATUS.
- Each time you press PLAY ▲ or STOP ▼, the set date changes by 1-day intervals. If you press and hold the button, the set date changes by 15-day intervals.

7 Press PLAY ▲ or STOP ▼ to set the year, then press OK/STATUS.
- Each time you press PLAY ▲ or STOP ▼, the set year changes by 1-year intervals. If you press and hold the button, the set year changes rapidly.

8 Press MENU to exit from the menu operations.

Note:
If a power failure occurs, clock will lose its setting.

To be continued on the next page

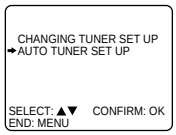
Automatic Channel Setting

Before using the VCR, you need to set the tuner channels. Follow the procedures described below.

For Australia customers only:
This VCR is factory pretuned to Australian capital city 2, 7, 9, 10 and 28. Do not perform this task unless you are outside of capital city reception area.

1 Select Tuner Set Up Mode

1 Press MENU.
2 Press PLAY ▲ or STOP ▼ to select "TUNER SET UP" then press OK/STATUS.



2 Start Auto Programming

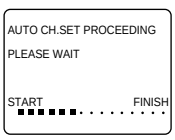
1 Press PLAY ▲ or STOP ▼ to select "AUTO TUNER SET UP" then press OK/STATUS.
The TV system selecting menu appears on the TV.
2 Press PLAY ▲ or STOP ▼ to select the appropriate TV system of your residential area.

SYS COUNTRY
→ B/G W.EUR. ASEAN AUST. NZ
D/K CHINA RUS. E.EUR.
I HK S.AF. UK
M USA CAN. MEX. JPN LATIN AM. KOR. TWN PHIL.
SELECT: ▲▼ CONFIRM: OK
END: MENU

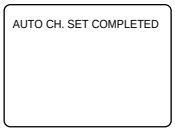
B/G : For West Europe, ASEAN countries, Australia, New Zealand.
D/K : For China, Russia, East Europe.
I : For Hong Kong, South Africa, United Kingdom.
M : For USA, Canada, Mexico, Japan, Latin America, Korea, Taiwan, the Phillipines.

3 Press OK/STATUS.
Auto programming starts.
The local channels receivable in your area are automatically programmed in the VCR's tuner.

While the auto programming is carried out
The following message appears on the TV screen.



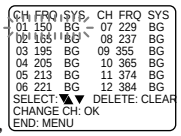
When the auto programming is completed
The following message appears on the TV screen, and the lowest channel will be tuned in.



If you want to delete unwanted channels

You can delete channels manually. After you have deleted the channels, they will be not selected by pressing CH ▲/▼.

1 Press VCR.
2 Press MENU.
3 Press PLAY ▲ or STOP ▼ to select "TUNER SET UP" then press OK/STATUS.
4 Press PLAY ▲ or STOP ▼ to select "CHANGING TUNER SET UP" then press OK/STATUS.
The programmed channel information list appears with the settings of the tuned channel flashing. (You can also watch the picture of the tuned channel since the list and the picture alternates on the TV.)
5 Press PLAY ▲ or STOP ▼ until an unwanted channel setting flashes.
6 Press CLEAR to delete the unwanted channel.
• If you have accidentally deleted a channel, press REW ◄.
7 Repeat steps 5 and 6 until you delete all unwanted channels.
8 Press MENU to exit from the menu operations.


CH FRQ SYS CH FRQ SYS
→01 150 BG 07 229 BG
02 165 BG 08 237 BG
03 195 BG 09 355 BG
04 205 BG 10 365 BG
05 213 BG 11 374 BG
06 221 BG 12 384 BG
SELECT: ▲▼ DELETE: CLEAR
CHANGE CH: OK
END: MENU

If you want to exchange the channel positions

You can also replace the channel position numbers.

EX. Replace channel 9 and channel 3

1 Press VCR.
2 Press MENU.
3 Press PLAY ▲ or STOP ▼ to select "TUNER SET UP" then press OK/STATUS.
4 Press PLAY ▲ or STOP ▼ to select "CHANGING TUNER SET UP" then press OK/STATUS.
5 Press PLAY ▲ or STOP ▼ until information for channel 3 flashes.
6 Press OK/STATUS **once**.
Only channel indication for channel 3 starts flashing.
7 Press 0 then 9.
The channel settings for channel 3 and 9 are exchanged.
• If you have accidentally deleted a channel, press REW ◄.
8 Press OK/STATUS to store the setting.
9 Press MENU to exit from the menu operations.

If the picture is not clear

You need to fine-tune this particular channel.

EX. Fine-tune channel 3

1 Press VCR.
2 Press MENU.
3 Press PLAY ▲ or STOP ▼ to select "TUNER SET UP" then press OK/STATUS.
4 Press PLAY ▲ or STOP ▼ to select "CHANGING TUNER SET UP" then press OK/STATUS.
5 Press PLAY ▲ or STOP ▼ until information for channel 3 flashes.
6 Press OK/STATUS **twice**.
Only frequency indication for channel 3 starts flashing.
7 Press PLAY ▲ or STOP ▼ to fine-tune the station until you get the best possible picture.
8 Press OK/STATUS to store the setting.
9 Press MENU to exit from the menu operations.

If no sound comes out

You need to change the TV system for this particular channel.

EX. Change the TV system for channel 3

1 Press VCR.
2 Press MENU.
3 Press PLAY ▲ or STOP ▼ to select "TUNER SET UP" then press OK/STATUS.
4 Press PLAY ▲ or STOP ▼ to select "CHANGING TUNER SET UP" then press OK/STATUS.
5 Press PLAY ▲ or STOP ▼ until information for channel 3 flashes.
6 Press OK/STATUS **three times**.
Only TV system indication for channel 3 starts flashing.
7 Press PLAY ▲ or STOP ▼ to select the appropriate TV system [(**BG, DK, I, M**)] so that sound comes out.
8 Press OK/STATUS to store the setting.
9 Press MENU to exit from the menu operations.

Manual Channel Setting

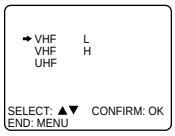
When you want to do channel setting manually, follow this procedure.

1 Select Tuner Set Up Mode

1 Press VCR.
2 Press MENU.
3 Press PLAY ▲ or STOP ▼ to select "TUNER SET UP" then press OK/STATUS.
4 Press PLAY ▲ or STOP ▼ to select "CHANGING TUNER SET UP" then press OK/STATUS.
The programmed channel information list appears with the settings of the tuned channel flashing. (You can also watch the picture of the tuned channel since the list and the picture alternates on the TV.)

2 Select Station

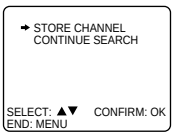
1 Press PLAY ▲ or STOP ▼ until an open channel in which you want to store a new channel starts flashing then press OK/STATUS.



2 Press PLAY ▲ or STOP ▼ to select the search starting band.

VHF L: Starts searching from the VHF L band.
VHF H: Starts searching from the VHF H band.
UHF: Starts searching from the UHF band.

3 Press OK/STATUS. Searching starts, and when a station is tuned in, searching stops and the tuned frequency is shown on the TV. Then the following menu appears.



3 Store Channel

Press PLAY ▲ or STOP ▼ to select "STORE CHANNEL" then press OK/STATUS.
The programmed channel information list appears again with the settings of the newly tuned channel flashing.
- If you do not want to store this station, select "CONTINUE SEARCH" then press OK/STATUS, searching starts again.

4 Finish Setting

Press MENU.

Selecting Colour Mode

Before using the VCR, you need to set the colour mode both for recording and playback.

Press COLOUR MODE on the front panel for more than 2 seconds. The current setting will appear on the screen for about 5 seconds. While the current setting appears, press COLOUR MODE repeatedly, the setting changes as follows.

For recording:

AUTO: Normally select this mode. The colour system is automatically detected.
NTSC3.58: Select this mode if "AUTO" does not work well when recording the NTSC signals. (For playback on an NTSC TV)
NTSC4.43: Select this mode if "AUTO" does not work well when recording the NTSC signals on the PAL TV. (For playback on a PAL TV)
PAL: Select this mode if "AUTO" does not work well when recording the PAL signals.
MESECAM: Select this mode if "AUTO" does not work well when recording the SECAM signals.

For playback:

AUTO: Normally select this mode. When you watch a PAL, NTSC or MESECAM tape, the colour system is automatically detected.
NTSC3.58: Select this mode when you watch an NTSC3.58 tape on an NTSC TV.
NTSC4.43: Select this mode when you watch an NTSC4.43 tape on a PAL TV.
NTSC➞PAL TV: Select this mode when you watch an NTSC3.58 tape on a PAL TV.
PAL: Select this mode if "AUTO" does not work well when playing back a PAL tape.
MESECAM: Select this mode if "AUTO" does not work well when playing back a MESECAM tape.

When playing back an NTSC tape with "AUTO" mode selected
The tape is played back using "NTSC3.58" mode.

BASIC OPERATIONS

Playback

1 On TV

1 Turn on the TV.
2 Select the video channel (or external video input).

2 On VCR

Insert a cassette.
The VCR turns on.
- If the record tab on a cassette is removed, playback will start automatically.
- If a cassette is already in the VCR, turn on the VCR.

3 Start Playback

Press PLAY ►.

To rapidly locate a particular scene

Press FF ►► or REW ◄◄ during playback. (No sound comes out.)
To resume playback, press PLAY ► again.
- If FF ►► or REW ◄◄ is held down for more than 2 seconds, simply releasing it will cancel the search.

To stop playback

Press STOP ■.

To rewind the tape

Press REW ◄◄ when the tape is not running (or turn the shuttle ring on the front panel clockwise).

To fast forward the tape

Press FF ►► when the tape is not running (or turn the shuttle ring on the front panel clockwise).

To eject the tape

Press STOP/EJECT ■/⏏.

To turn off the VCR

Press POWER.

When playing back an NTSC tape on a PAL TV
- *Some TVs shrink the picture vertically and place black bars at the top and the bottom of the TV screen.*
- *The time counter and remaining tape length will not be correct.*

Recording

When using this VCR, an index mark is always marked at the beginning of every recording. This index marks make it easier for you to search for the beginning of the recordings, see“ Index Search” (☞P.13)

Make sure....
- The record tab on the cassette is not removed.

1 On TV

1 Turn on the TV.
2 Select the video channel (or external video input).

2 On VCR

Insert a cassette with the record tab in place.
The VCR turns on.
- If a cassette is already in the VCR, turn on the VCR.

To rewind the tape, press REW ◄◄ (or turn the shuttle ring on the front panel clockwise)..

3 Select Tape Speed

Press ALT/ SPEED until the desired tape speed SP, LP or SLP appears on the display.
SP, LP : For PAL signal
SP, SLP: For NTSC signal

4 Select a Channel

Press CH ▲ / ▼ or Number buttons to select the channel to record.

5 Start Recording

Press REC/OTR ●.

To pause recording

Press STILL/SLOW ❙► briefly (or PAUSE/STILL ❙❙ on the front panel). To resume recording, press the same button again.

To stop recording

Press STOP ■.

To watch another TV programme while recording

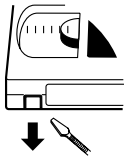
Select a different channel you want to watch on the TV.

You can watch the programme of the selected channel on the TV, without affecting recording on the VCR.

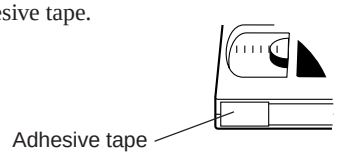
Erase protection

Cassettes have the record tab to ensure that recordings are not accidentally erased.

To prevent accidental erasure:
Break off the record tab with a screwdriver.



To record again:
Cover the opening with adhesive tape.



Automatic Operations

Auto playback

When a tape is inserted, the VCR turns on. If the record tab is removed, playback begins.

Auto rewind

When a tape reaches its end during playback, fast forwarding or manual recording, the VCR rewinds the tape and stops.

Memory rewind power off

When you press POWER during rewinding, the VCR turns off after rewinding is completed.

Eject cassette

You can eject the tape simply by pressing STOP/EJECT ■/⏏ on the front panel even while the VCR is turned off.
When you press STOP/EJECT ■/⏏ on the front panel, the VCR automatically turns on, ejects the tape, then turns off.

INTRODUCTION

The Philips Tape Manager is a very helpful and powerful assistant.
The Tape Manager will tell you;
- on which tape you find your recorded programmes.
- on which tape you find enough blank space for new recordings.

Every recording will be memorised (date, start and stop time, length and channel) and the tapes will be given unique numbers to identify them.

Find a Title

This function is useful when you wish to quickly find out what programmes you have recorded on a tape using this VCR. It allows you to select a programme to watch, and then automatically searches for the start of the programme.

1 Load a Recorded Cassette

Insert a recorded cassette. The tape will run for a few seconds to search for the tape number. The tape number is displayed on the screen for about 5 seconds.

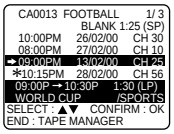
2 Access Title Screen

1 Press VCR.
2 Press TAPE MANAGER. The title screen will appear.

Note:
- *If no cassette is inserted in the VCR, "FIND TITLE" screen appears. (☞P.15)*

3 Select a Programme

1 Press PLAY ▲ or STOP ▼ to select the programme you want to watch.

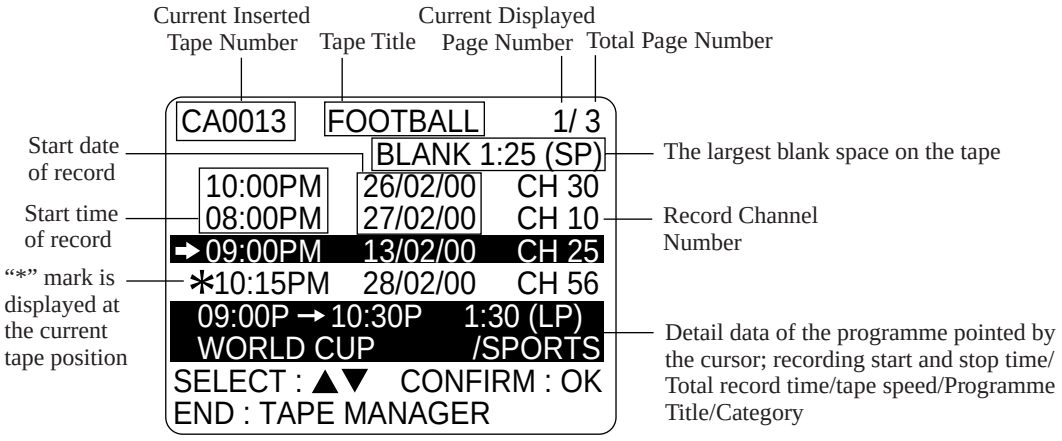

CA0013 FOOTBALL 1/ 3
BLANK 1:25 (SP)
10:00PM 26/02/00 CH 30
08:00PM 27/02/00 CH 10
➡09:00PM 13/02/00 CH 25
✻10:15PM 28/02/00 CH 56
09:00P ➞ 10:30P 1:30 (LP)
WORLD CUP /SPORTS
SELECT : ▲▼ CONFIRM : OK
END : TAPE MANAGER

2 Press OK/STATUS. Playback begins automatically after the selected programme is located. Press STOP ■ if you wish to stop the tape at the beginning of the programme.

Notes:
- *It may take a few seconds to display the directory screen while the VCR searches for the programme information at step 2.*
- *Tape manager is possible with the cassettes recorded with this VCR only.*
- *To record the date and time as the programme title in this VCR's memory, make sure the VCR's clock is set correctly before recording.*
- *To record the programme information in this VCR's memory, you must record each programme for over the minimum continuous recording time;*
  -For PAL signal: 8 minutes for the SP mode or 15 minutes for the LP mode.
  -For NTSC signal: 5 minutes for the SP mode or 15 minutes for the SLP mode.
- *After recording a tape with this VCR, write the tape number on a label and affix the label to the tape in order to allow you to find the tape by its number. The tape number will be assigned and appear on the screen once you eject the recorded tape.*
- *If the Tape Manager does not show the content of the inserted tape, wind the tape to a recent recording and press the TAPE MANAGER button again.*
- *The programme information is stored in this VCR's memory. If the memory in this VCR should ever be damaged and the programme information lost, it is impossible to restore that information.*
- *If the VCR finds two tape numbers in one tape while playing back or searching for the beginning of a program, then when you remove the tape, the tape will be assigned just one number (smaller number).*

How To Read the Tape Manager Screen

The following information appears on the Tape Manager screen described above.


Current Inserted Tape Number
Tape Title
Current Displayed Page Number
Total Page Number
CA0013
FOOTBALL
1/ 3
BLANK 1:25 (SP)
Start date of record
10:00PM 26/02/00 CH 30
Start time of record
08:00PM 27/02/00 CH 10
➡09:00PM 13/02/00 CH 25
"*" mark is displayed at the current tape position
✻10:15PM 28/02/00 CH 56
09:00P ➞ 10:30P 1:30 (LP)
WORLD CUP /SPORTS
SELECT : ▲▼ CONFIRM : OK
END : TAPE MANAGER
The largest blank space on the tape
Record Channel Number
Detail data of the programme pointed by the cursor; recording start and stop time/ Total record time/tape speed/Programme Title/Category

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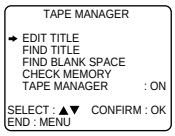
Title Editing

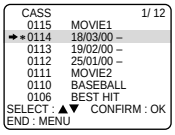
When you record a TV programme with this VCR, the VCR automatically records the recording start and stop time, date, and channel in each programme title. If the tape is recorded for the first time, the tape number and the date and time are recorded in the tape title. You can then edit the tape title and the programme titles as you like. You can also edit the category in the programme title.

1 Select Edit Title Mode

1 Press VCR.
2 Press MENU.
3 Press PLAY ▲ or STOP ▼ to select "TAPE MANAGER", then press OK/STATUS.



4 Press PLAY ▲ or STOP ▼ to select "EDIT TITLE", then press OK/STATUS. The tape preview screen will appear;



- The "∗" mark indicates the current inserted tape.

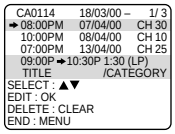
5 Press PLAY ▲ or STOP ▼ to select the tape you want to edit, then press OK/STATUS.

2 Edit Tape Title

1 To edit the tape title, press OK/STATUS.
2 Press NUMBER keys to enter characters, then press OK/STATUS. Refer to "Entering Character" in the next column.

3 Edit Programme Title and Category

1 Press PLAY ▲ or STOP ▼ to select the programme you want to edit, then press OK/STATUS.



2 Press NUMBER keys to enter characters, then press OK/STATUS. Refer to "Entering Character" in the next column.
3 Press PLAY ▲ or STOP ▼ to select the category, then press OK/STATUS.
Every time you press PLAY ▲ or STOP ▼, the setting will change as follows:

Choice Of Category

CATEGORY ▲
▲ ▼
MOVIE
▲ ▼
SPORTS
▲ ▼
SHOW
▲ ▼
SERIES
▲ ▼
NEWS
▲ ▼
CHILDREN
▲ ▼
SHOPPING ▼

Entering Character

Press NUMBER key, then press FF ► to enter each character. Refer to the example below:
(Ex.) **Enter "CNN NEWS"**
1 Press 2 (ABC) three times to enter "C", then press FF ►.
2 Press 6 (MNO) twice to enter "N", then press FF ►.
3 Press 6 (MNO) twice to enter "N", then press FF ►.
4 Press 0 ( ) twice to enter " (space)", then press FF ►.
5 Press 6 (MNO) twice to enter "N", then press FF ►.
6 Press 3 (DEF) twice to enter "E", then press FF ►.
7 Press 9 (WXYZ) once to enter "W", then press FF ►.
8 Press 7 (PQRS) four times to enter "S", then press FF ►.

NUMBER BUTTON	CHARACTER
1	. , / – + ∗ ( ) 1
2	A B C 2
3	D E F 3
4	G H I 4
5	J K L 5
6	M N O 6
7	P Q R S 7
8	T U V 8
9	W X Y Z 9
0	0 _

- If you make a mistake, press ◄ ► to select the character, then enter the correct character.
- If you want to delete a character, press ◄ ► to select the character, then press CLEAR.

Find Title by Sorting

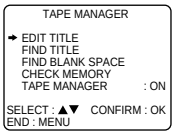
There are three ways to find which tape the desired programme was recorded on.

- **Sorting by Tape Number;** This function is useful for finding what programme was recorded on each tape.
- **Sorting by Date;** This function is useful for finding if you remember when the desired programme was recorded.
- **Sorting by Category;** This function is useful for finding if you remember what category the desired programme was sorted in.

Sorting by Tape Number

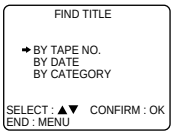
1 Select Find Title Mode

1 Press VCR.
2 Press MENU.
3 Press PLAY ▲ or STOP ▼ to select "TAPE MANAGER", then press OK/STATUS. The following screen appears:



2 Select Tape No. Mode

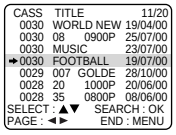
1 Press PLAY ▲ or STOP ▼ to select "FIND TITLE", then press OK/STATUS. The Find Title Screen appears:



2 Press PLAY ▲ or STOP ▼ to select "BY TAPE NO.", then press OK/STATUS.

3 Select Programme

1 Press PLAY ▲ or STOP ▼ to select the title you want, then press OK/STATUS.



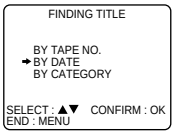
If the tape inserted in the VCR corresponds to the required tape number;
The VCR searches and starts playback when the selected programme is located.
If the tape inserted in the VCR does not correspond to the required tape number;
"INSERT TAPE 0030 (example)" appears and the tape is ejected. Insert the correct tape. The VCR searches and starts playback when the selected programme is located.
If no cassette is inserted in the VCR;
"INSERT TAPE 0030 (example)" appears. Insert the correct tape. The VCR searches and starts playback when the selected programme is located.

Sorting by Date

Perform step 1 of "Sorting By Tape Number" before continuing.

1 Select Date Mode

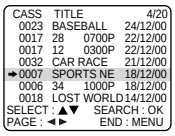
1 Press PLAY ▲ or STOP ▼ to select "FIND TITLE", then press OK/STATUS. The Find Title Screen appears:



2 Press PLAY ▲ or STOP ▼ to select "BY DATE", then press OK/STATUS.

2 Select Programme

1 Press PLAY ▲ or STOP ▼ to select the title you want, then press OK/STATUS.



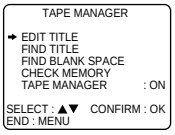
If the tape inserted in the VCR corresponds to the required tape number;
The VCR searches and starts playback when the selected programme is located.
If the tape inserted in the VCR does not correspond to the required tape number;
"INSERT TAPE 0007 (example)" appears and the tape is ejected. Insert the correct tape. The VCR searches and starts playback when the selected programme is located.
If no cassette is inserted in the VCR,
"INSERT TAPE 0007 (example)" appears. Insert the correct tape. The VCR searches and starts playback when the selected programme is located.

Sorting by Category

Perform step 1 of "Sorting By Tape Number" before continuing.

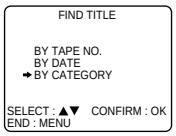
1 Select Find Title Mode

1 Press VCR.
2 Press MENU.
3 Press PLAY ▲ or STOP ▼ to select "TAPE MANAGER", then press OK/STATUS. The following screen appears:



2 Select Category Mode

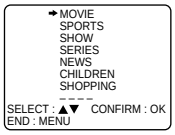
1 Press PLAY ▲ or STOP ▼ to select "FIND TITLE", then press OK/STATUS. The Find Title Screen appears:



2 Press PLAY ▲ or STOP ▼ to select "BY CATEGORY", then press OK/STATUS.

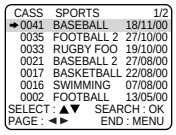
3 Select Category

Press PLAY ▲ or STOP ▼ to select the category, then press OK/STATUS.



4 Select Programme

1 Press PLAY ▲ or STOP ▼ to select the title you want, then press OK/STATUS.



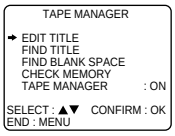
2 **If the tape inserted in the VCR correcponds to the required tape number,**
The VCR searches and starts playback when the selected programme is located.
If the tape inserted in the VCR does not correspond to the required tape number;
"INSERT TAPE 0017 (example)" appears and the tape is ejected. The VCR searches and starts playback when the selected programme is located.
If no cassette is inserted in the VCR;
"INSERT TAPE 0017 (example)" appears. The VCR searches and starts playback when the selected programme is located.

Find Blank Space

With this function, you can find the blank space on each tape and use the space for recording.

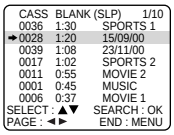
1 Select "Find Blank Space" Mode

1 Press VCR.
2 Press MENU.
3 Press PLAY ▲ or STOP ▼ to select "TAPE MANAGER", then press OK/STATUS. The following screen appears:



2 Select Blank Space Mode

1 Press PLAY ▲ or STOP ▼ to select "FIND BLANK SPACE", then press OK/STATUS. The list of blank space on each tape appears on the screen with the blank space length sorted. The blank space length is displayed with the current selected tape speed.



2 Press PLAY ▲ or STOP ▼ to select the tape number you want, then press OK/STATUS.
If the tape inserted in the VCR corresponds to the required tape number;
The VCR searches and stops when the blank portion is reached.
If the tape inserted in the VCR does not correspond to the required tape number;
"INSERT TAPE 0028 (example)" appears and the tape is ejected. Insert the correct tape. The VCR searches and stops when the blank space is located.
If no cassette is inserted in the VCR;
"INSERT TAPE 0028 (example)" appears. Insert the correct tape. The VCR searches and stops when the blank space is located.

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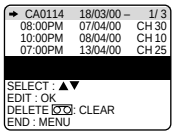
Delete Tape Data

If you do not want to keep data of a particular tape in the Tape Manager memory, this function is useful to release memory.
Perform step 1 of "Title Editing" on page 14 before continuing.

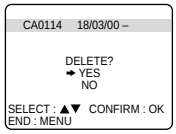
1 Select Tape Title

Press PLAY ▲ or STOP ▼ to select the tape title, then press CLEAR.



2 Delete Tape Data

1 Press PLAY ▲ or STOP ▼ to select "YES", then press OK/STATUS.



3 Finish Deletion

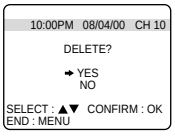
Press MENU.

Delete Programme Data

If you want to delete a programme from the Tape Manager memory, this function is useful to increase blank space.
Perform step 1 of "Title Editing" on page 15 before continuing.

1 Select Programme

Press PLAY ▲ or STOP ▼ to select the programme you want to delete, then press CLEAR.



2 Delete Programme Data

Press PLAY ▲ or STOP ▼ to select "YES", then press OK/STATUS.

3 Finish Deletion

Press MENU.

Note:

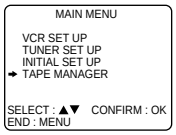
- *When you delete data, only the tape and/or programme information in the Tape Manager memory is deleted. The actual recording on the tape is not erased.*

To Check Memory

With this function, you can check the amount of used memory for the tape manager data.

1 Select Tape Manager Mode

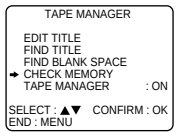
1 Press VCR.
2 Press MENU.

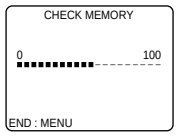


3 Press PLAY ▲ or STOP ▼ to select "TAPE MANAGER", then press OK/STATUS.

2 Check Tape Manager Memory

Press PLAY ▲ or STOP ▼ to select "CHECK MEMORY", then press OK STATUS. The CHECK MEMORY screen appears;





3 Finish Checking

Press MENU.

To Turn Off Tape Manager

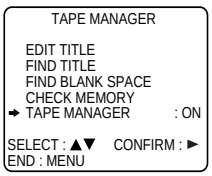
If you do not want to use the Tape Manager functions, set "TAPE MANAGER" to "OFF".

1 Select Tape Manager Mode

1 Press VCR.
2 Press MENU.
3 Press PLAY ▲ or STOP ▼ to select "TAPE MANAGER", then press OK/STATUS.

2 To Turn Off Tape Manager

Press PLAY ▲ or STOP ▼ to select "TAPE MANAGER", then press FF ► to set to "OFF".



3 Finish Setting

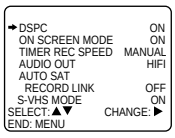
Press MENU.

Selecting Recording Format

When shipped from the factory, this VCR has been set to select automatically S-VHS format for recording on an S-VHS tape and VHS format for recording on a VHS tape. If you want to make a recording using VHS format on an S-VHS tape, follow the procedure below.

1 Select VCR Set Up Mode

1 Press VCR.
2 Press MENU.
3 Press PLAY ▲ or STOP ▼ to select "VCR SET UP" then press OK/STATUS.
The VCR Set Up menu appears.



2 Select Recording Format

1 Press PLAY ▲ or STOP ▼ to select "S-VHS MODE."
2 Press FF ►.
Each time you press the button, the setting changes.

ON:
Normally select this.
OFF:
Select this when you want to make a recording using the VHS format on an S-VHS tape.

3 Finish Setting

Press MENU.

S-VHS ET

This VCR allows recording in Super VHS ET (Expansion Technology) mode. You can record with S-VHS picture quality on VHS cassettes. However, this funcion is available only for SP recording.

1 Select S-VHS ET Mode

1 Press the S-VHS ET button on the front panel to select S-VHS ET recording mode before recording. The lamp will lit.
2 Press the button again to cancel S-VHS ET recording mode after recording.

Notes:
- "Recording" setting cannot be changed during recording, timer recording, or when the VCR's power is off. Also, this function dows not work with S-VHS tapes.
- To obtain the highest quality recording and playback pictures over a longer period on this model, S-VHS ET recording on S-VHS tape is recommended.
- You can playback S-VHS ET ET recordings not only on this VCR but also on another VHS VCR equipped with S-VHS ET.
- It is recommended to specifically label S-VHS ET recordings so you can easily distinguish them from regular VHS recordings.
- S-VHS ET recordings can also be played back on an S-VHS VCR. However, there may be cases where S-VHS ET playback is not possible on a particular VCR.
- Frequent still, frame-by-frame and slow motion playback may damage the tape and cause picture degradation.
- With some tapes, better picture quality may not be obtained even with S-VHS ET recording. It is recommended that you do test record beforehand to make sure whether better results can be obtained.
- High Grade tapes are recommended for superior results.
- If the playback picture becomes blurred or interrupted, use a cleaning cassette.

Selecting Monitor Sound

This VCR can receive and record stereo and bilingual programmes, including the NICAM broadcasts.

If you want to change the sound you listen to while playing back a HiFi stereo or bilingual tape, press VCR then press AUDIO/MUTE repeatedly. Each time you press the button, the sound changes as follows:

HiFi stereo → HiFi left channel → HiFi right channel → Monaural sound on normal audio track → Mixed (HiFi stereo sound + normal audio)

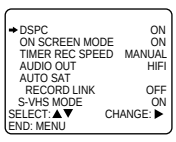
HIFI:
Normally select this mode.
You can play back a HiFi tape in HiFi stereo mode and monaural tape in monaural mode.
HIFI L:
Select this mode when you want to play back the sound recorded on HiFi left channel (usually main language) of a bilingual programme.
HIFI R:
Select this mode when you want to play back the sound recorded on HiFi right channel (usually sub-language) of a bilingual programme.
NORMAL MONO:
Select this mode when you want to play back the sound recorded on the normal audio track of the tape.
HIFI+NORMAL:
Select this mode when you want to play back a mixed sound of the HiFi tracks and the normal audio track.

Note:
- *The connections described in "VCR to AV TV Connection" (☞P.7) are required for HiFi stereo playback.*

When using the menu to select monitor sound

Normally you do not need to use this menu to select monitor sound.
When you select monitor sound by pressing AUDIO/MUTE, this menu is automatically set correctly.

1 Press VCR.
2 Press MENU.
3 Press PLAY ▲ or STOP ▼ to select "VCR SET UP" then press OK/STATUS.
4 Press PLAY ▲ or STOP ▼ to select "AUDIO OUT."
Press FF ► to select the sound.
5 Press MENU to exit from the menu operations.



Special Effect Playbacks

Are you familiar with tape playback? If so, you are ready to enjoy the special effect playback features described below.

To skip playback for a certain period

Press SKIP SEARCH button 1 to 4 times during playback to search forward for 30 seconds by the time counter reading.
Each time you press the button, the search time increases as follows:

30→60→90→120 sec.

The VCR automatically resumes normal playback after searching for the specified period.

To view a still picture

Press STILL/SLOW I► (or PAUSE/STILL II on the front panel) briefly during playback.
Playback is freezed and a still picture appears.
To resume playback, press PLAY ►.
To advance a still picture:
Press STILL/SLOW I► (or PAUSE/STILL II on the front panel) again.
Each time the button is pressed, a still picture advance one frame. Or, press JOG/SHTL so that the JOG/SHTL button lights up. Rotate the jog dial clockwise (or counterclockwise) to advance (or reverse) a still picture frame by frame, while the JOG/SHTL button lights up.

To resume playback, press PLAY ►.

To view a slow motion picture

Press STILL/SLOW I► (or PAUSE/STILL II on the front panel) for more than 2 seconds during playback.
To decrease the slow motion speed (and reverse the slow motion playback), turn the shuttle ring counterclockwise or press STILL/SLOW –.
To increase the slow motion speed (and forward the slow motion playback), turn the shuttle ring clockwise or press STILL/SLOW +.
To resume playback, press PLAY ►.

To rapidly locate, then freeze, a particular scene

During tape playback or Still mode, follow these steps.

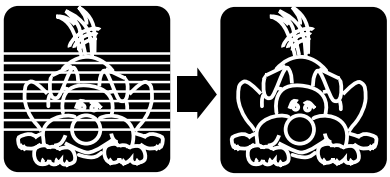
Tracking Adjustments

Auto tracking

Each time a tape is inserted, auto tracking starts working and continuously analyses the signal to adjust for optimum picture quality during playback. So, there is no need for you to minimize noises in most tapes during playback.

Manual tracking

- **During normal playback:**
  If auto tracking cannot eliminate noises well during playback, press CH ▲ or ▼.
- **During a slow motion picture:**
  Press CH ▲ or ▼ to minimize noises in the slow motion picture.
- **During a still picture:**
  Press CH ▲ or ▼ to reduce jitter inthe still picture.



To cancel manual tracking, stop the tape, eject the tape, then re-insert it.

Notes:
If you keep pressing CH▲ /▼ button, you might get "USE CLEANING CASSETTE" message on the screen (and "U:01" on display window). Please disregard this message and re-adjust the tracking. However, if the message appears automatically (without pressing CH ▲ /▼), this indicates that your video heads are dirty. (☞P.21)

Index Search

You can locate an index marked at the beginning of each recording on a tape recorded on this VCR (or an indexed tape).
Press ►►I or I◄◄ repeatedly until the appropriate number is displayed on the TV screen before starting play.
Rapid forward or reverse search begins. When it finds the designated index, playback starts automatically.

- Locate an index number by pressing the button repeatedly, indicating how many index marks ahead of or behind that recording you want is from the tape's current position.
- Up to ±9th index mark from the current position on the tape can be located.

Repeat Playback

When you press and hold PLAY ► for more than 5 seconds, you can play back the same tape repeatedly (100 times). When the tape runs to its end, the VCR automatically rewinds the tape, and starts playback.

Child Lock

You can prevent the VCR operations.

To use Child Lock

When the VCR is turned on, press and hold POWER on the remote control for more than 10 seconds to turn off the VCR.
The "CL" appears blinking on the display.
While "CL" is on the display, you cannot turn on the VCR by pressing POWER on the VCR.

To cancel Child Lock

Press and hold POWER on the remote control for more than 10 seconds to turn on the VCR.
The "CL" disappears on the display and VCR is turned on.

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One Touch Recording (OTR)

The OTR function lets you quickly specify how long you want a recording to continue. You do not have to programme the timer.

1 On TV

1 Turn on the TV.
2 Select the video channel (or external video input).

2 On VCR

Insert a cassette with the record tab in place.
The VCR turns on.

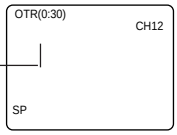
- If a cassette is already in the VCR, turn on the VCR.

3 Select Channel

Press CH ▲ / ▼ or Number buttons to select the channel to record.

4 Start OTR

Press REC/OTR ● twice.
Recording starts immediately, and the ◌ (Record) indicator lights up on the display.



This indicates that the VCR will automatically shut off after 30 minutes of recording.

5 Select Recording Length

Press REC/OTR ● repeatedly until the desired recording length appears.
Each time you press the button, recording length increases in 30-minute intervals.

0:30→1:00→1:30·····5:30→6:00
REC (Normal recording)←

To check time remaining during an OTR

Press OK/STATUS.

To change the recording length during an OTR

Press REC/OTR ● until the desired length appears.

To cancel an OTR

Press STOP ■ to stop recording before the preset recording length is reached. If you want to cancel the OTR mode but continue recording, press REC/OTR several times until "OTR" changes to "REC" on the TV screen.

Notes on the indications on the display while an OTR operation

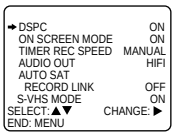
- *During recording, the displayed time counts down. When "0:00" is reached, recording stops and the VCR turns off automatically.*
- *If an OTR is engaged during pause, the displayed time counts down normally but recording does not begin until you cancel the pause.*

Using On-Screen Display

You can display the VCR operating status on the TV screen.
For the information about what you can see on the TV screen, see page 9.

1 Select VCR Set Up Mode

1 Press VCR.
2 Press MENU.
3 Press PLAY ▲ or STOP ▼ to select "VCR SET UP" then press OK/STATUS.
The VCR Set Up menu appears.



2 Select On-Screen Mode

1 Press PLAY ▲ or STOP ▼ to select "ON SCREEN MODE."
2 Press FF ►.
Each time you press the button, the setting changes.

ON:
When you press a tape running button (Stop, Play, etc.), the VCR status appears for 5 seconds.

COUNTER:
When you press a tape running button, the VCR operating status appears for 5 seconds.
After 5 seconds, the VCR status disappears except the time counter.

OFF:
The VCR operating status does not appear even if you press a tape running button.

3 Finish Setting

Press MENU.

To display the VCR status on the TV screen manually, press OK/STATUS.
The VCR status appears for about 5 seconds.

- If "ON SCREEN MODE" is set to OFF," no VCR status appears though you press OK/STATUS.

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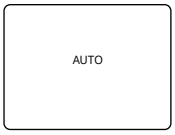
SmartPicture

You can make the picture softer or sharper or distinct the picture when playing back the tape.
SmartPicture is set to AUTO when you receive the VCR.

1 Select SmartPicture Mode

1 Press VCR.
2 Press SMART-PICTURE button. The current setting will appear on the screen for about 5 seconds.



3 While the current setting appears, press the SMARTPICTURE button repeatedly, the setting changes as follows.

AUTO/NATURAL:
Normally select this mode.

DISTINCT:
Select this mode when you want the distinct picture. The picture detail is emphasized.

SOFT:
Select this mode when you want the soft picture. The signal noise of the picture is softened.

SHARP:
Select this mode when you want the sharp picture. The picture edge is emphasized.

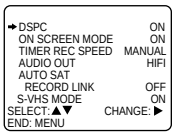
Notes:
- *It is recommended that the SmartPicture is set to "SOFT" if playback picture is noisy.*
- *When "DSPC" is set to "OFF", "AUTO" is switched to "NATURAL" automatically.*

DSPC

The DSPC (Digital Studio Picture Control) system checks the condition of the tape in use during recording and playback, and compensates to provide the highest possible recording and playback pictures. The default setting is "ON".

1 Select VCR Set Up Mode

1 Press VCR.
2 Press MENU.
3 Press PLAY▲ or STOP ▼ to select "VCR SET UP" then press OK/STATUS.
The VCR Set up menu appears.



2 Set DSPC Mode

Press PLAY ▲ or STOP ▼ to select " DSPC", then press FF ► to set DSPC to "ON" or "OFF".

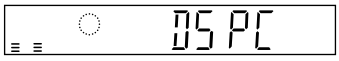
3 Finish Setting

Press MENU.
Once the "DSPC" mode is set to "ON", the DSPC system works for both recording & playback, as described below;

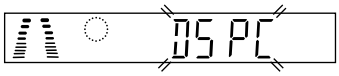
For Recording

Press REC/OTR ●.

DURING DSPC



DSPC COMPLETED

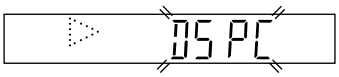


- *The VCR spends approximately 7 seconds assessing the condition of the tape, then begins recording.*

Notes:
- *The DSPC system works for SP, LP or SLP modes only after a tape has been inserted and the Record mode is first initiated. Also, it works if the colour mode is changed. It does not work during recording.*
- *In the case of timer recording, the DSPC system works before recording is initiated.*
- *Once the cassette is ejected, the DSPC data is cancelled. The next time the cassette is used for recording, DSPC is re-performed.*
- *When "DSPC" is displayed, the VCR does not start One Touch Recording (☞P. 12).*
- Since the DSPC system works before recording actually starts, there is a delay of approximately 7 seconds after REC/OTR ● is pressed. To make sure you record the desired scene or programme in its entirety, first perform the following steps:
  1) Press and hold PAUSE/STILL❚❚ on the front panel) and press REC/OTR● on the front panel to engage the RECORD PAUSE mode.
  - *The VCR then automatically checks the condition of the tape and, after approximately 7 seconds, re-enters RECORD PAUSE.*
  2) Press REC/OTR● again to start recording.
  - *If you want to by pass the DSPC system and begin recording immediately, set "DSPC" to "OFF".*

For Playback

Press PLAY ►.



- The VCR adjusts the playback picture quality based on the quality of the tape in use.
- DSPC is active during Auto Tracking. "DSPC" appears blinking on the front panel's display window.

Notes:
- *When watching a tape recorded with "DSPC" set to "ON", it is recommended that you leave DSPC to "ON" during playback as well.*
- *"DSPC" only appears at the beginning of automatic tracking. Even though it doesn't appear after that, the DSPC function is operative.*

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Record Link

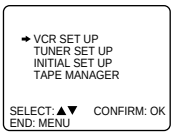
This facility allows you to record a satellite program automatically which is timer-programmed on your external satellite tuner. Connect a satellite tuner to the VCR's AUDIO/VIDEO IN jacks on the rear panel and programme the timer on the satellite tuner. The VCR starts recording when it signals input from the satellite tuner to the VCR's AUDIO/VIDEO IN jacks on the rear panel, and when there is no input signal the VCR stops recording and the power shuts off.

Before performing the following steps:

- *Make sure the satellite tuner is connected to the VCR's AUDIO/VIDEO IN jacks on the rear panel.*
- *Programme the timer on the satellite tuner.*
- *Insert a cassette with the safety tab in place.*

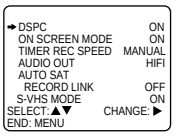
1 Select VCR Set Up Mode

1 Press PLAY ▲ or STOP ▼ to select "VCR SET UP" then press OK/STATUS.



2 Set Record Link

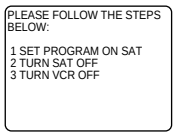
1 Press PLAY ▲ or STOP ▼ to select "AUTO SAT RECORD LINK" , then press FF ► to set to "ON" .



3 Finish Setting

Press MENU.

The following message will appear:



Press POWER to turn off the VCR.
If you do not turn off the VCR after 30 seconds, the VCR will turn off automatically.
The VCR will then move to stand-by mode and "L-1" will blink on the display panel.

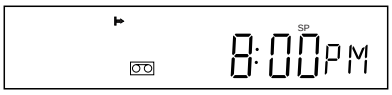
Notes:

- *Pressing the POWER button while Record Link or stand-by mode is in progress will cancel the REC LINK mode and "AUTO SAT RECORD LINK" is set back to "OFF" automatically.*
- *Be sure not to turn on the satellite tuner before the program is executed otherwise the VCR will start recording when the satellite tuner's power is turned on.*
- *Depending on the type of satellite tuner, the VCR may not record a slight portion of the beginning of the program or may record slightly longer than the actual length of the program.*
- *While the VCR is in Record Link or stand-by mode, normal timer recording will not perform.*
- *"Err L-1" will appear if you engage the Record Link during the satellite tuner power is on. Turn off the satellite tuner. However, if "Err" will not disappear even though the satellite tuner is turned off, Record Link function will not work properly with that satellite tuner.*

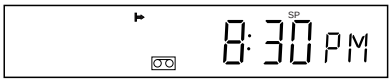
Turbo Timer

This function allows you to set the timer recording program without going through the regular set up with the on screen. The extent of programming is 24 hours from the current time.

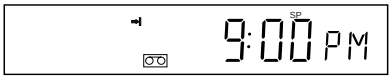
1 Insert a tape into the VCR and press the "TURBO TIMER" button on the remote control. Current time will appear on the display panel.



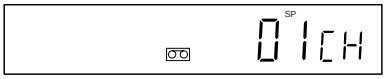
2 To change the START time, press the PLAY ▲ or STOP ▼ (if you press and hold the button, the time changes in 30-minute increments) then press OK/STATUS.



3 To change the STOP time, press the PLAY ▲ or STOP ▼ (if you press and hold a button, the time changes in 30-minute increments) then press OK/STATUS.



4 To change the CHANNEL number, press the PLAY ▲ or STOP ▼, then press OK/STATUS.



5 The data input will be memorized and the Turbo Timer mode will be finished so that normal display appears.
6 Turn off the VCR.

Notes:

- To exit Turbo Timer mode at any step, press the TURBO TIMER button.
- If "Err" appears on the display panel, all eight programs have been set and Turbo Timer will not proceed. To remove the error message, press the TURBO TIMER button again.
- Settings of Turbo Timer will appear on the display panel only and not on the screen.
- Programs Overlap Warning does not function with Turbo Timer.
- DAILY or WEEKLY programming are not available on Turbo Timer.
- Tape speed can be selected anytime during steps 2 through 4.

G-CODE® Set Up

You can simplify the programming method of timer recording by using the G-CODE system. Whenever you want to record a TV program, all you need to do is to find out the programme's G-CODE number.

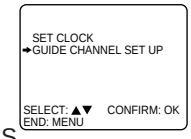
You can easily find out this number by checking the TV programme list of your local newspaper or TV guide magazine. Simply entering the programme's G-CODE number using the remote control will make the VCR record the programme.

Before using the G-CODE system for the first time, you need to set the guide channel number for each local channel number. The **local channel (user channel) number** is the number you select on the VCR to record a programme, while the **guide channel number** is the one assigned to that local channel and you can also find it in the TV programme list of your local newspaper or TV guide magazine.

- You can use the tables below to note your local TV (or Cable) channel numbers and their guide channel numbers.

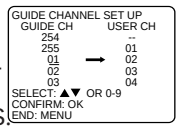
1 Select VCR Set Up Mode

1 Press MENU.
2 Press PLAY ▲ or STOP ▼ to select "INITIAL SET UP" then press OK/STATUS.



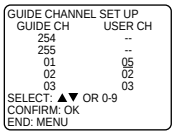
2 Set Guide Channels

1 Press PLAY▲ or STOP ▼ to select "GUIDE CHANNEL SET UP" then press OK/STATUS.



2 While the GUIDE CH number is flashing, press PLAY▲ or STOP ▼ (or CH ▲/▼) or Number buttons to enter guide channel number (GUIDE CH) then press OK/STATUS.

- For example, for guide channel number 9, press 0, 9.
  Always enter "0" before any single number entries.



3 While the space for the user CH is flashing, press PLAY▲ or STOP ▼ (or CH ▲/▼) or Number buttons to enter local channel number (USER CH), then press OK/STATUS.

- For example, for local channel number 9, press 0, 9.
  Always enter "0" for empty digits.

4 Repeat the above procedures until you set the guide channel for all the receivable local channels.

3 Finish Setting

Press MENU.

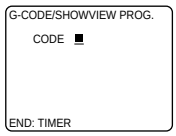
To correct a user channel number and/or a guide channel number, repeat the same procedures explained above. This time, enter the correct user channel number and/or the correct guide channel number.

Timer Recording Using the G-CODE System

By entering the G-CODE number for a particular TV programme, you can easily programme a timer recording.

1 Select G-CODE Mode

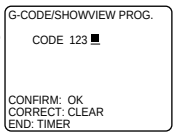
1 Press VCR.
2 Press TIMER.
3 Press PLAY▲ or STOP ▼ to select "G-CODE/SHOWVIEW" then press OK/STATUS.
The G-CODE entry menu appears on the TV screen.



(You may notice that the on-screen display reads "G-CODE/SHOWVIEW System". Please note that "G-CODE" and "SHOWVIEW" are different trademarks used in different countries to represent the same easy recording feature. The model you purchased uses the "G-CODE" trademark, but the on-screen display uses both trademarks.)

2 Enter G-CODE Number

1 Press Number buttons to enter the G-CODE number assigned to the TV programme you want to record.



2 Press OK/STATUS.

- If "ERROR-RE-ENTER CODE" appears on the TV, you have entered an incorrect G-CODE number. If this happens, press CLEAR to erase the number, then enter the correct number.
- If you have not yet set the user channel, the "GUIDE CHANNEL SET UP " screen will appear. Press PLAY▲ or STOP ▼ buttons repeatedly or number buttons to enter the USER CH number which the broadcast for the G-CODE number is received on the VCR, then press OK/STATUS.

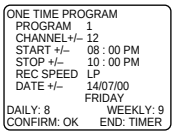
To be continued on next page

Local TV Station's Name	Local Channel No. (USER CH)	G-CODE Guide Channel No. (GUIDE CH)
ABC2	Ch 2	Ch 2
ATN7	Ch 7	Ch 7
TCN9	Ch 9	Ch 9
TEN10	Ch 10	Ch 10
SBS28	Ch 28	Ch 28

Local TV Station's Name	Local Channel No. (USER CH)	G-CODE Guide Channel No. (GUIDE CH)

3 Select Tape Speed

Press ALT/SPEED.



- Each time you press the button, the tape speed alternates between “SP”, “LP”, or “SLP”.
  SP, LP : For PAL signal
  SP, SLP : For NTSC signal
- To change the stop time, press STOP +/– (number 2 or 5 button).

4 Confirm Programme

Press OK/STATUS or TIMER.
“PROGRAM WAS COMPLETED” appears on the TV screen.
After 5 seconds, the above message disappears, and the normal TV picture resumes. The ◴ (timer) indicator lights up on the display.

- If “PROGRAM NOT COMPLETED” appears, try again from step 1.
- If “ PROGRAM OVERLAPPED” appears, the timer recording you just programmed overlaps another timer recording. The Program Review screen will appear with a magenta line blinking. To change any item on the overlapping programs, see page 20.

If you want to store other programmes, repeat steps 1 to 4

5 Finish the Settings

Press POWER to turn off the VCR.
The VCR must be turned off for a timer recording to take place. If you forget to turn off the VCR, “PLEASE TURN OFF VCR FOR TIMER RECORDING” flashes on your TV screen two minutes before a timer recording starts. To remove the message, press the CLEAR button.

If you want to record the same programme daily, press DAILY (Number button 8) at step 3 (Press the button again to cancel).
The VCR will record a TV programme every day (Monday through Friday) at the same time and length. (Daily Recording)

If you want to record the same programme weekly, press WEEKLY (Number button 9) at step 3 (Press the button again to cancel).
The VCR will record a TV programme once a week at the same day, time, and length. (Weekly Recording)

If you want to cancel the currently set programme, press CLEAR.

Note:

- *Even if a power failure occurs, the VCR keeps your timer programs. However, the clock time and other menu settings are lost if it lasts for more than 10 minutes. As a result, when the power is supplied again to this VCR after the power failure, set the clock time and turn off the VCR. Each timer program you have made will start unless its start time already passes.*

Timer Recording

To record while you’re away, follow step 1 — 9 below. For each programme you set, the VCR will turn on, start recording, and turn off automatically. You can store up to 8 programmes.

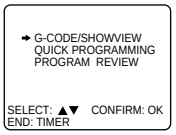
Make sure....

- The clock is set to the correct time before setting timer recording.
- A cassette is inserted in the VCR and the record tab of the cassette must not be removed.
- The remote control operation mode is set correctly for operating your target component.
  – Press VCR to operate the VCR.
  – Press TV to operate the TV.

FOR EACH STEP BELOW, YOU NEED TO FINISH WITHIN 60 SECONDS; OTHERWISE, PROGRAMMING WILL HAVE TO BE RESTARTED FROM STEP 1.

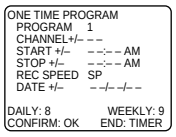
1 Select Timer Mode

1 Press VCR.
2 Press TIMER. The Timer Recording menu appears.



2 Select Programme mode

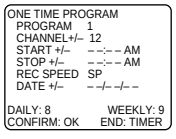
1 Press PLAY ▲ or STOP ▼ to select “QUICK PROGRAMMING” then press OK/STATUS.
The Quick Programming menu appears.



- If you have already made 8 programmes, “ALL PROGRAMS IN USE” appears and goes back to the Timer Recording menu. If this happens, delete unwanted programmes. (☞P.20)

3 Select Channel

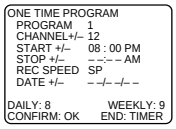
Press CH ▲ or ▼ to enter the TV channel.



- Holding down CH ▲ or ▼ rapidly scans through the channels.
- To record from external line input, press CH ▲ or ▼ until “A/V REAR” or “A/V FRONT” appears.

4 Select Start Time

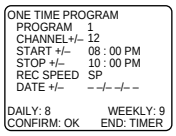
Press START + or – (Number button 1 or 4).



- Each time you press the button, the set time changes by 1-minute intervals. If you hold the button, the set time changes by 30-minute intervals.

5 Select Stop Time

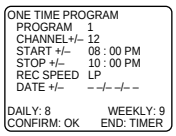
Press STOP + or – (Number button 2 or 5).



- Each time you press the button, the set time changes by 1 minute intervals. If you hold the button, the set time changes by 30-minute intervals.

6 Select Tape Speed

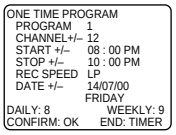
Press ALT/SPEED.



- Each time you press the button, the tape speed alternates between “SP”, “LP” and “SLP.”
  SP, LP : For PAL signal
  SP, SLP : For NTSC signal

7 Select Start Date

Press DATE + or – (Number button 3 or 6).



- The year and day of the week is displayed automatically.

8 Confirm Programme

Press OK/STATUS or TIMER.
“PROGRAM WAS COMPLETED” appears on the TV screen.
After 5 seconds, the above message disappears, and the normal TV picture resumes. The ◴ (Timer) indicator lights up on the display.

- If “PROGRAM NOT COMPLETED” appears, try again from step 1.
- If “PROGRAM OVERLAPPED” appears, the timer recording you just programmed overlaps another timer recording. The Program Review screen will appear with a magenta line blinking. To change any item on the overlapping programs, see page 20.

If you want to store other programmes, repeat steps 1 to 8.

9 Finish Settings

Press POWER to turn off the VCR. The VCR must be turned off for a timer recording to take place. If you forget to turn off the VCR, “PLEASE TURN OFF VCR FOR TIMER RECORDING” flashes on your TV screen two minutes before a timer recording starts. To remove the message, press the CLEAR button.

If you want to record the same programme daily, press DAILY (Number button 8) during step 3 through 7. (Press the button again to cancel).
The VCR will record a TV programme every day (Monday through Friday) at the same time and length (Daily Recording).

If you want to record the same programme weekly, press WEEKLY (Number button 9) during step 3 through 7. (Press the button again to cancel).
The VCR will record a TV programme once a week at the same day, time and length (Weekly Recording).

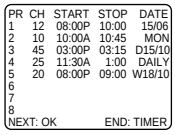
After a timer recording has taken place

Press POWER to turn on the VCR.
You can operate your VCR normally.

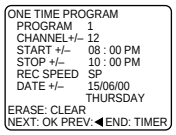
To stop a started timer recording

Press POWER.
Recording stops and the VCR turns off. If it is a Daily or Weekly Recording, future recordings will be carried out as programmed.

To check, edit or erase the programmes



1 Turn on the VCR and TV.
2 Press VCR.
3 Press TIMER.
4 Press PLAY ▲ or STOP ▼ to select "PROGRAM REVIEW" then press OK/STATUS. The list of the timer recording programmes appears.
5 Press OK/STATUS repeatedly to view the more detailed programme information.



- When you press the button for the first time, the detailed programme information for Programme 1 appears. By pressing this button repeatedly, you can review the detailed information of all other programmes.

6 If you want to change the programme setting shown on the TV screen, press the following buttons:

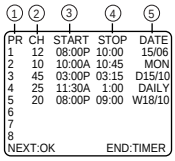
CH ▲/▼ : Changes the channels.
START +/– : Changes the start time.
STOP +/– : Changes the stop time.
SPEED : Changes the tape speed.
DATE +/– : Changes the date.

If you want to erase the programme setting shown on the TV screen, press CLEAR. The detailed information of the next programme appears.

7 If necessary, press TIMER to exit from the menu operations.

Note:
This function does not work for OTR (One Touch Recording).

How to see the programme list



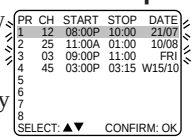
① Programme numbers
② Preset channel numbers
③ Start time
"A" stands for "AM," and "P" stands for "PM."
④ Stop time
⑤ Start date
"D" stands for "DAILY," and "W" stands for "WEEKLY."

- If the programme has worked once for the Daily recording, "DAILY" will be shown instead of the start date.
- If the programme has worked once for the Weekly recording, the day of the week (in this example, "MON") will be shown instead of the start date.

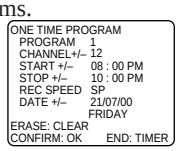
Note:
- *Even if a power failure occurs, the VCR keeps your timer programs. However, the clock time and other menu settings are lost if it lasts for more than 10 minutes. As a result, when the power is supplied again to this VCR after the power failure, set the clock time and turn off the VCR. Each timer program you have made will start unless its start time already passes.*

When two programs overlap

The Program Review screen will appear with a magenta line blinking on the newly set timer recording, while the other overlapped programme blinking.



1 Press PLAY ▲ or STOP ▼ to move the magenta line among the two overlapping programs.
2 Press OK/STATUS to view the detail information of the program you want to change.



3 Go to step 4 through 8 of " Timer Recording" to modify the selected program. To cancel any timer recording, press CLEAR.

- If you do not modify the overlapping programs, the VCR will record the earlier program completely. Only the remaining part of the later program will be recorded.
- If the START time for the two programs are same, the lower program number will be recorded.

Useful function for Timer Recording: Auto Tape Speed

With this function activated, the VCR can change the tape speed and record the programme in LP or SLP mode unless enough tape remains for recording in SP mode.

1 Press VCR.
2 Press MENU.
3 Press PLAY ▲ or STOP ▼ to select "VCR SET UP" then OK/STATUS.
4 Press PLAY ▲ or STOP ▼ to select "TIMER REC SPEED."
5 Press FF ►.
Each time you press the button, the setting changes.

AUTO:
Select this to allow the VCR to change the tape speed from SP to LP or SLP when there is not enough tape length remaining.

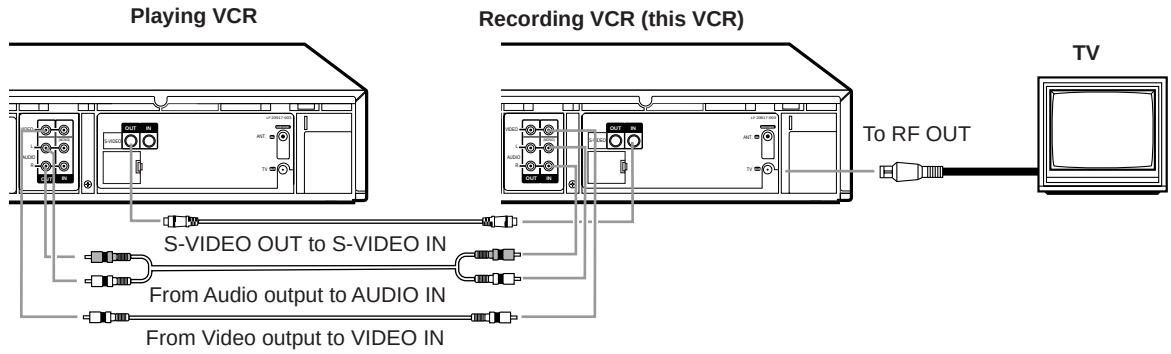
MANUAL:
Select this not to allow the VCR to change the tape speed.

6 Press MENU to exit from the menu operations.

Tape Duplication

Connection Diagram

1 Connect the recording VCR (this VCR) and the playing VCR.
2 Connect the recording VCR (this VCR) to the TV.



Dubbing from any VHS VCR (or video camera) to another is simple. Explanations on this page uses this VCR as the recording VCR.
Refer also to the manual supplied with the other VCR (for playback).

You can also use the AUDIO/VIDEO input jacks on the front panel to connect another VCR or video camera using the audio/video cable (RCA pin-type).

1 At VCRs

Insert a source tape in the playing VCR and a blank tape in the recording VCR.

- If a tape without the record tab is inserted in the playing VCR, playback automatically starts. In this case, press the STOP button.

2 At TV

Turn the channel on the TV to your video channel.

3 Select Line Input

Press CH ▲ or ▼, pointing the remote control at this VCR, to select the external line input.

- For rear jacks, select “L-1” on the display or “A/V IN ” on the TV screen.
- For front jacks, select “L-F” on the display or “F- A/V IN ” on the TV screen.

4 Select Tape Speed

Press ALT/SPEED, pointing the remote control at this VCR, until the desired tape speed (SP, LP or SLP) appears on the display.
SP, LP : For PAL signal
SP, SLP : For NTSC signal

5 Play Back Tape

Press the PLAY ► button on the playing VCR.

6 Record (Copy) Tape

Press REC/OTR ● at this VCR.

Remember: press the buttons in steps 5 and 6 simultaneously to avoid missing any of the recording.

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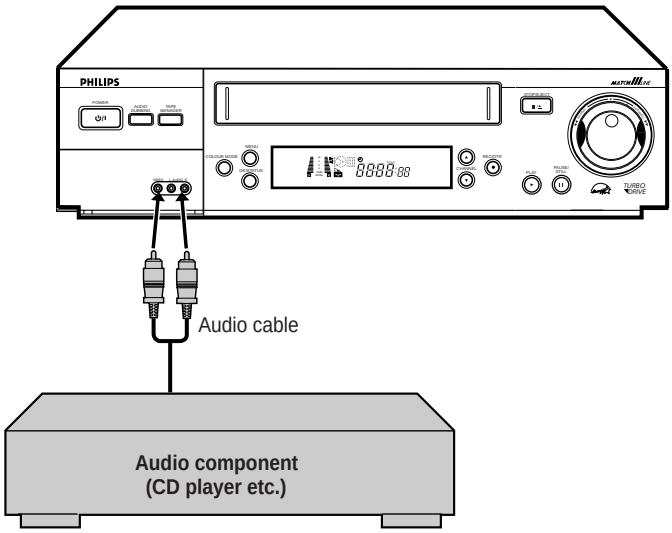
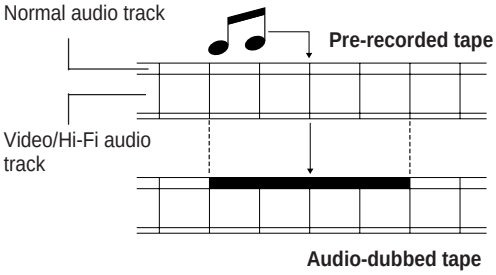
Audio Dubbing



Audio dubbing replaces the normal audio sound of a previously recorded tape with a new soundtrack. Use your VCR as the recorder.



1 Make Connections

Connect an audio component to the AUDIO IN (L and R) jacks on the VCR's front panel.

- When using monaural equipment, use only VCR's AUDIO IN L jack.

2 Set Input Mode

Press VCR, then press the Number 0 button and/or CH ▲/▼ so that "F-1" appears on the display window and "F-A/V IN" appears on the screen.

3 Locate Start Point

Press PLAY ► to start playback of the tape in the VCR, and press STILL/SLOW ❙► (or PAUSE/STILL ❚❚ on the front panel) when you find a point where you want to start dubbing. Press AUDIO DUBBING on the front panel.

- Your VCR enters the Audio Dubbing Pause mode. ○ (REC) blinks, ▷❚❚ (PLAY and PAUSE) lights up on the display window.

4 Start Dubbing

Engage the audio component's PLAY mode, then press STILL/SLOW ❙► (or PAUSE/STILL ❚❚ on the front panel) to start the tape in your VCR. Audio Dubbing begins at this point.

- To stop dubbing temporarily, press STILL/SLOW ❙► or PAUSE/STILL ❚❚. To resume dubbing, press STILL/SLOW ❙► or PAUSE/STILL ❚❚ again .

5 End Audio Dubbing

Press STOP ■ to stop the tape in the VCR, and engage the audio component's stop mode.

Note:

- *When monitoring the sound during Audio Dubbing, the normal soundtrack is automatically selected. If you wish to hear the HiFi sound, press AUDIO/MUTE on the remote control and select the soundtrack you wish to hear.*
- *Audio dubbing stops automatically when the counter reaches "00:00:00", and the recorder enters the Play mode. Check the counter reading before dubbing.*
- *Audio dubbing is also possible using the rear panel AUDIO IN jack. When using this jack, make sure to select the correct input mode in step **2**.*
- *Audio dubbing cannot be performed on a cassette that has had its record safety tab removed.*
- *When playing back an audio-dubbed tape, press AUDIO/MUTE on the remote control to select the soundtrack you wish to hear.*

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OPERATING TV

You can use this remote control to operate your TV, not only PHILIPS TV but also other manufacturers' TVs listed below.
You first need to set the manufacturer's code.

Note:
Though this remote control can operate most of the PHILIPS TVs as well as many other manufacturers', some of the TVs will not operate or some functions available on the TVs will not work with this remote control.

1 Set Code

1 Press and hold TV.
2 Press two Number buttons for the manufacturer's code number of your TV, referring to the table to the right.
- For example, for 02, press 0 then 2.

3 Press STOP ■, then release TV.
- The remote control can now operate the TV of the selected code.

2 Confirm Setting

Press POWER, pointing the remote control at the TV.
If the TV turns on or off, your setting is completed.
If not, repeat steps above, using another code.

After replacing the batteries
You need to reset the manufacturer's code again.

Note:
The buttons you can use to operate your TV are explained on pages 4 – 5.

TV Manufacturers' Codes	
PHILIPS	01, 02, 03
EMERSON	14
GOLDSTAR	04
GRUNDIG	24, 25
HITACHI	12
JVC	05
MITSUBISHI	13, 26
PANASONIC	07, 17, 19, 20
RCA	10
SAMSUNG	18
SANYO	11
SHARP	16
SONY	09
THOMSON	21, 22, 23
TOSHIBA	08
ZENITH	06, 15

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BEFORE REQUESTING SERVICE

Check the following points once again if you are having some difficulties with your VCR.

IMPORTANT

Periodic maintenance is required in order to maintain the VCR's continuous excellent performance. After a period of time the video heads will require replacement. If cleaning or replacement of the video heads is required, this service should be performed at an authorized video system service center.

Power	Correction
No power.	• Check that the AC power cord is correctly connected to an AC outlet. • Check that the VCR is turned on.

Recording & Playback	Correction
TV programme cannot be recorded.	• Check the connections between the VCR, the antenna and the TV. • Make sure that the record tab on the back of the cassette is not removed. (☞P.12)
Timer recording cannot be performed.	• Set the timer on-time and timer off-time correctly. (☞P.18, P.19) • Make sure that the VCR is turned off after setting is made. (☞P.18, P.19) • Timer recording may not be performed or stopped if a power interruption occurs before or during timer recording.
There is no playback picture, or the playback picture is noisy or contains streaks.	• Select your video channel correctly. • Adjust the tracking slowly in either direction. (☞P.13)
During a still or slow motion picture, the picture may contain some vertical jitter when using a TV which has an automatic vertical hold control.	• Adjust the vertical hold control manually on the TV, if available.
If the top of your playback picture waves back and forth excessively.	• Because the VCR playback signal is not as stable as an off-the-air TV signal, the top of your TV screen may be bent or unstable during playback. To solve this problem, slowly turn the horizontal hold control on your TV to correct the wavy picture. If your TV does not have the horizontal hold control or adjusting the control does not help, contact your local TV service center.
During playback, "USE CLEANING CASSETTE" appears on the screen and "U:01" appears on the display window.	• The video heads are dirty. Use a head cleaner.

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BEFORE REQUESTING SERVICE (CONTINUED)

Remote Control	Correction
The remote control cannot work.	• Aim the remote control directly at the remote sensor on the VCR. • Avoid all obstacles which may interfere with the signal path. • Inspect or replace the batteries. (☞P.5) • Make sure batteries are inserted correctly. (☞P.5)

Miscellaneous	Correction
A cassette cannot be inserted.	• Insert the cassette with the window side up and the record tab facing you. • Check that a cassette tape is not already inserted. Press EJECT ⏏.
The cassette does not eject.	• Check that the AC power cord is correctly connected to an AC outlet.
The cassette ejects when you press REC/OTR, or when you press POWER to set timer recording.	• Check that the record tab on the back of the cassette is not removed. (☞P.12)

SPECIFICATIONS

General	
Mains voltage	AC 110 V – 240 V∿
Mains frequency	50 Hz/60 Hz
Power consumption	Approx. 19 watts
Ambient temperature	+5 °C to +40 °C
Relative humidity	10 % to 80 %
Dimensions (WxHxD)	Approx. 360 mm x 94 mm x 277 mm
Mass	Approx. 3.2 kg
Position for use	Horizontal
Video output channel	UHF 38 (adjustable between 28 — 60)
Possible number of TV channel	99
Number of pre-programmable memory blocks	8
Number of days in advance	365 or every day, or every week
Tuner	
Aerial input	B/G, D/K, I, K1
VHF L:	42 MHz — 175 MHz
VHF H:	175 MHz — 470 MHz
UHF:	470 MHz — 870 MHz
	CATV
Video	
Input (VIDEO IN)	0.5 V(p-p) to 2.0 V(p-p), 75 ohms
Output (VIDEO OUT)	1.0 V(p-p) ±0.2 V(p-p), 75 ohms
Resolution	Better than 240 lines
Signal/noise ratio	Better than 43 dB
Audio	
Input (AUDIO IN)	–8 dBs, 50 k ohms (0 dBs=0.775 Vrms)
Output (AUDIO OUT)	–8 dBs, 1 k ohms (0 dBs=0.775 Vrms)
Accessories supplied	Remote control unit RF coaxial cable Batteries – R6(SUM-3)/AA (only for checking operations)

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